

What is claimed is:

- 1 1. A method of data access code generation, comprising:
 - 2 a) describing a data object in a data object description document;
 - 3 b) applying at least one code generation template to said data object
 - 4 description document;
 - 5 c) generating at least one data access class.
- 1 2. The method according to claim 1, wherein said data object description document
- 2 conforms to a data object document type definition.
- 1 3. The method according to claim 1, wherein steps b) and c) are performed by a data
- 2 access code generator routine.
- 1 4. The method according to claim 1, wherein said at least one data access class is a
- 2 data access Java class.
- 1 5. The method according to claim 1, wherein said data object description document is
- 2 created in Extensible Markup Language (XML).
- 1 6. The method according to claim 1, wherein said at least one code generation
- 2 template is implemented in a transformation language.
- 1 7. The method according to claim 6, wherein said transformation language is
- 2 Extensible Stylesheet Language (XSL).
- 1 8. The method according to claim 3, wherein said data access code generator takes
- 2 said data object description document and said at least one code generation template as
- 3 inputs and outputs said at least one data access class.

1 9. A method of generating data access Java classes, comprising:

2 a) creating a XML data object description;

3 b) applying a plurality of code generation templates to said XML data object

4 description;

5 c) generating at least one data access Java class.

1 10. The method according to claim 9, wherein said XML data object description is

2 created pursuant to a data object document type definition.

1 11. The method according to claim 9, wherein steps b) and c) are performed by a data

2 access code generator routine.

1 12. The method according to claim 11, wherein said data access code generator takes

2 said XML data object description and said at least one code generation template as inputs

3 and outputs said at least one data access Java class.

1 13. A method of data access code generation in an object-oriented programming

2 environment, comprising:

3 a) describing a data object in a data object description document;

4 b) applying at least one code generation template to said data object

5 description document;

6 c) generating at least one data access class.

1 14. The method according to claim 13, wherein said object-oriented programming

2 environment is Java.

1 15. The method according to claim 13, wherein said data object description document

2 conforms to a data object document type description.

1 16. The method according to claim 13, wherein said code generation template is an
2 Extensible Stylesheet Language (XSL) document.

1 17. An apparatus for generating data access code comprising:
2 a) a data object descriptor;
3 b) a least one code generation template; and
4 c) a code generator operative to generate at least one data access class.

1 18. The apparatus according to claim 17, wherein said data object descriptor is
2 operative to describe a data object that conforms to a data object document type
3 definition.

1 19. The apparatus according to claim 17, wherein said at least one code generation
2 template is operative to define the transformation of said data object description to said at
3 least one data access class.

1 20. The apparatus according to claim 17, wherein said at least one data access class is
2 a data access Java class.

1 21. The apparatus according to claim 17, wherein said data object descriptor is created
2 in Extensible Markup Language (XML).

1 22. A program product, said program product comprising:
2 a) memory; and
3 b) a data access code generator stored on said memory, said data access code
4 generator being configured to perform the steps of,
5 i) describing a data object in a data object description document;
6 ii) applying at least one code generation template to said data object
7 description document; and

8 iii) generating at least one data access class.

1 23. The program product of claim 22, wherein said data object description document
2 conforms to a data object document type definition.

1 24. The program product of claim 22, wherein said at least one data access class is a
2 data access Java class.

1 25. The program product of claim 22, wherein said data object description document
2 is created in Extensible Markup Language (XML).

1 26. The program product of claim 22, wherein said at least one code generation
2 template is implemented in a transformation language.

1 27. The program product of claim 26, wherein said transformation language is
2 Extensible Stylesheet Language (XSL).

1 28. The program product of claim 24, wherein said data access code generator takes
2 said data object description document and said at least one code generation template as
3 inputs and outputs said at least one data access class.

1 29. A program product, said program product comprising:
2 a) memory; and
3 b) a program stored on said memory, said program being configured to
4 perform the steps of,
5 i) creating a XML data object description;
6 ii) applying a plurality of code generation templates to said XML data
7 object description; and
8 iii) generating at least one data access Java class.

